

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: Source: Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS: http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to: U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/904,923/
ATTN: NEW RULES CASES	s: Please disregard english "alpha" headers, which were inserted by Pto software
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)  Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9 Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

DATE: 11/13/2002 RAW SEQUENCE LISTING TIME: 13:53:10 PATENT APPLICATION: US/09/904,923A

Input Set : A:\#153407 v1 - Sequence listing Novartis (2001).txt Output Set: N:\CRF4\11132002\I904923A.raw

4 <110> APPLICANT: Novartis AG 6 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellula r matrix components 9 <130> FILE REFERENCE: 4-30246a/GTI 11 <140> CURRENT APPLICATION NUMBER: US 09/904,923A C--> 12 <141> CURRENT FILING DATE: 2002-10-02 15 <160> NUMBER OF SEQ ID NOS: 3 Does Nor Combin 17 <170> SOFTWARE: Patentln version 3.1

Corrected Diskette Needec ERRORED SEQUENCES W--> 18 <210> SEQ ID NO: 1 19 <211> LENGTH: 229 20 <212> TYPE: PRT 21 <213> ORGANISM: Moloney murine leukemia virus

23 <400> SEQUENCE: 1 25 Ala Ser Pro Gly Ser Ser Pro His Gln Val Tyr Asn Ile Thr Trp Glu 10

29 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His-30 = insert number 25 20

33 Pro Leu Trp Thr Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu 34 35 37 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe 60 55 50 38

41 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly 80*C*-75 70 E--> 42 65

46 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys 90 85 47 50 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser 110 105 100 54 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser

125 120 57 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys 140 135

60 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Trp Asp Phe 155 150 63 Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys

170 165 66 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala 185 180

69 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg 200 195 70

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/904,923A

DATE: 11/13/2002 TIME: 13:53:10

Input Set: A:\\#153407 v1 - Sequence listing Novartis (2001).txt
Output Set: N:\CRF4\11132002\I904923A.raw

. . . . . .

```
72 Leu Tyr Val Ser Gly Gln Asp Pro Gly leu Thr Phe Gly Ile Arg Leu
            210
     75 Arg Tyr Gln Asn Leu
     76 225
     79 <210> SEQ ID NO: 2
     80 <211> LENGTH: 687
     81 <212> TYPE: DNA
     84 <213> ORGANISM: Moloney murine leukemia virus
     87 <400> SEQUENCE: 2
E--> 88 gcttcgcccg gctccagtcc tcatcaagtc tataatatca cctgggaggt aaccaatgga
           (60)
     89
E--> 91 gatcaggaga cggtatgggc aacttctggc aaccaccctc tgtggacctg gtggcctgac - 120
     92
          (120)
E--> 94 cttaccccag atttatgtat gttagcccac catggaccat cttattgggg gctagaatat
                                                                                 (see item I
on Enor
Sunnay Sheet)
           180
     95
E--> 97 caatcccctt tttcttctcc cccggggccc ccttgttgct cagggggcag cagcccaggc
           240
     98
E--> 100 tgttccagag actgcgaaga acctttaacc tccctcaccc ctcggtgcaa cactgcctgg
            300
     101
E--> 103 aacagactca agctagacca gacaactcat aaatcaaatg agggatttta tgtttgcccc
            360
     104
E--> 106 gggccccacc gcccccgaga atccaagtca tgtgggggte tagactcctt ctactgtgcc
     107
E--> 109 tattggggct gtgagacaac cggtagagct tactggaagc cctcctcatc atgggatttc
     110
E--> 113 atcacagtaa acaacaatct cacctctgac caggctgtcc aggtatgcaa agataataag
     114
E--> 116 tggtgcaacc ccttagttat tcggtttaca gacgccggga gacgggttac ttcctggacc
     117
E--> 119 acaggacatt actggggctt acgtttgtat gtctccggac aagatccagg gcttacattt
     120
E--> 123 gggatccgac tcagatacca aaatcta
             687
     124
      127 <210> SEQ ID NO: 3
     128 <211> LENGTH: 10
     129 <212> TYPE: PRT
     132 <213> ORGANISM: Artificial Sequence
                                           18 2 - 2 30 8 1 1 2 5 1 8 1 1 C
     134 <220> FEATURE:
     135 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
      137 <220> FEATURE:
      138 <221> NAME/KEY: BINDING
                                         しょうけいい 長ばい ひりがすい
      139 <222> LOCATION: (1) (10)
      140 <223> OTHER INFORMATION:
ME-> 143 <400> 3
      145 Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
                          5
      146 1
      176 #153407vI
                     DG.ST25.txt
 E--> 177/4-30246A
 E--> 179 Page 3
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/904,923A

DATE: 11/13/2002 TIME: 13:53:11

Input Set : A:\#153407 v1 - Sequence listing Novartis (2001).txt
Output Set: N:\CRF4\11132002\I904923A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:18 M:283 W: Missing Blank Line separator, <210> field identifier
L:30 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1/
M:332 Repeated in SeqNo=1
L:88 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2 //
M:254 Repeated in SeqNo=2
L:143 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3, Line#:140
L:177 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:177 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1

L:179 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10 Found:11 SEQ:3 /

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11 - 14 mil 11 - 14 13 mil 11 - 1 - 1 1 1 1

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